

IN THE CLAIMS:

1. (Currently Amended) A method for changing parallel signals in a digital data transmission over a radio link, in which ~~method the~~ data flow to be transmitted is divided into several transmissions, ~~characterised in that~~ comprising the steps of:

[[~~-~~]] ~~there is selected~~ selecting a primary transmission path ~~[(21),]]~~;

[[~~-~~]] ~~there is calculated~~ calculating a check sum for the data flow of ~~the a~~ length of ~~the a~~ processed section of the data flow, and said check sum is being added to the processed section of the data flow (22) in order to form a data frame to be transmitted~~[[,]]~~;

[[~~-~~]] transmitting the data frame in ~~the~~ transmission paths~~[[,]]~~ ~~there is~~ carried out the transmission of the data frame (23),

[[~~-~~]] correcting correctable errors in the received data frames ~~are corrected~~, and ~~an~~ calculating an error sum for each transmission path ~~paths is calculated~~~~[[,]]~~;

[[~~-~~]] comparing the error sum of ~~the a~~ selected transmission path is ~~compared~~ (25) with the error sums of other paths and ~~when necessary~~, said transmission path being changed to a path with a smaller error sum when said transmission path is selected as the path to be received ~~the transmission path selected as the one to be received is changed over~~ (26) ~~to a path with a smaller error sum~~~~[[,]]~~;

[[~~-~~]] changing a path of a clock signal ~~is changed over~~ after waiting for a sufficiently accurately cophasal clock signals~~[[,]]~~; and

[[~~-~~]] forwarding ~~the~~ information in the data flow of the processed section of the selected transmission path ~~is conducted~~ (27) ~~to the~~ to an output cable.

2. (Currently Amended) A The method according to claim 1, ~~characterised in that~~ wherein the check sum is calculated by multiplying the data flow by a polynome suitable for modelling.

3. (Currently Amended) An indoor unit (31, 37) for digital data transmission and for selecting ~~the a~~ data flow for parallel signals in a digital data transmission over a radio link, ~~characterised in that the indoor unit comprises~~ comprising:

at least a changeover device (38) for receiving and changing a propagation

assured signal on the a basis of an error sum obtained from an outdoor unit[[],];

wherein said changeover device ~~being arranged~~ is configured to change clock signals after waiting for sufficiently accurately cophasal clock signals.

4. (Currently Amended) ~~An~~ The indoor unit according to claim 3, ~~characterised in that wherein~~ the changeover ~~devices comprise~~ device comprises:

[[]] a multiplexer (51) for receiving ~~whereto~~ the clock signals of the signal pairs to be received ~~are conducted, and whereby~~ and for selecting the clock signal to be received ~~is selected~~[[], -];

data frame decoding blocks (52, 53) ~~whereto~~ for both receiving the clock signals and the data signals ~~are conducted, and where said signals are formed and~~ for forming said signals into control signals and data signals which are decoded from the data frames[[], -];

elastic buffer and control blocks (54, 55) ~~whereto~~ for receiving the control signals and data signals decoded from the data frames ~~are conducted, and whereto the~~ and for receiving a selected clock signal ~~to be received is conducted~~ in order to ~~synchronise~~ synchronize the data signals decoded from the frames[[], -];

a data signal multiplexer (56), ~~whereto the data signals are conducted~~ for receiving the data signals from the elastic buffer and the control blocks (54, 55)[[],]; and

[[]] a decoding block (57) ~~whereto a data signal is conducted~~ for receiving a data signal from the data signal multiplexer[[],] and ~~whereby the~~ for controlling the data signal multiplexer (56) ~~is controlled~~.

5. (Currently Amended) ~~An~~ The indoor unit according to claim 3, ~~characterised in that wherein~~ the indoor unit (31, 37) ~~constitutes~~ comprises part of a radio link in a mobile telecommunications system.

6. (Currently Amended) An outdoor unit (33, 36) for digital data transmission over a radio link and for selecting the data flow for parallel signals in digital data transmission, ~~characterised in that said outdoor unit comprises~~ comprising:

at least a transmitter for transmitting the a signal to be changed; and

respectively

a receiver for receiving said signal[[,]]; and

means (33A, 36A) for calculating the an error sum of the received signal and ~~further~~ for outputting the information indicating said error sum.

7. (Currently Amended) ~~An~~ The outdoor unit according to claim 6, ~~characterised in that~~ wherein the outdoor unit (33, 36) forms part of a radio link in a mobile telecommunications system.

8. (Currently Amended) An ~~arrangement~~ apparatus for changing parallel signals in digital data transmission over radio link, said ~~arrangement~~ apparatus comprising:

a first indoor unit (31) for dividing ~~the data flow~~ data which flows over the radio link, said first indoor unit having a first changeover device for receiving propagation assured data;

antennas (34, 35, 40, 41) for transmitting and receiving parallel clock signals; and

a second indoor unit (37) for selecting the data flow, said second unit having a second changeover device for receiving the propagation assured data;

wherein ~~characterised in that said arrangement also comprises [[-]] a first changeover device (32) in the first indoor unit (31) and a second changeover device (38) in the second indoor unit (37) for receiving the propagation assured data;~~ said changeover devices ~~being arranged~~ are configured to change clock signals after waiting for sufficiently accurately cophasal clock signals, and ~~[[- a]]~~ said first (33) and second (36) outdoor unit units are provided with means (33A, 36A) for processing by an algorithm that models the data to be transmitted using an algorithm that models the data to be transmitted, and respectively checks the data to be received and corrects errors in the data.

9. (Currently Amended) ~~An~~ The ~~arrangement~~ apparatus according to claim 8, ~~characterised in that~~ wherein the algorithm that models ~~modelling~~ the data to be transmitted is a polynome.

10. (Currently Amended) ~~An arrangement~~ The apparatus according to claim 8, ~~characterised in that wherein~~ the changeover devices comprise ~~[[-]] a multiplexer (51) whereto~~ for receiving the clock signals of the signal pairs to be received ~~are conducted and whereby and~~ for selecting the clock signal to be received ~~is selected, [[-]] data frame decoding blocks (52, 53),~~ whereto both for receiving the clock signals and the data signals ~~are conducted, and where said~~ signals are formed and for forming said signals into control signals and data signals which are decoded from the data frames, ~~[[-]] elastic buffer and control blocks (54, 55), whereto for~~ receiving the control signals and data signals decoded from the data frames ~~are conducted, and~~ whereto also is conducted and for receiving the selected clock signal ~~to be received~~ [[,]] in order to ~~synchronise~~ synchronize the data, ~~[[-]] a data signal multiplexer (56) whereto the~~ for receiving data signals ~~are conducted from~~ from the elastic buffer and control blocks (54, 55), and ~~[[-]] a~~ decoding block (57) ~~whereto for receiving a data signal is conducted from the data signal~~ multiplexer and ~~whereby for controlling the data signal multiplexer (56) is controlled.~~

12. (Currently Amended) ~~An~~ The indoor unit according to claim 4, ~~characterized in that~~ wherein the indoor unit (31, 37) ~~constitutes~~ comprises part of a radio link in a mobile telecommunications system.